



6706505

09724126

Figure 1A

SEQ ID NO:		
6	mouse_E3αI	MASEMEPEVQ AID-RSLLC SAEI AGRWL QATDLNREVY QHLAHCVPKI 49
4	human_E3αI	MASELEPEVQ AID-RSLLC SAEI AGKWL QATDLTREVY QHLAHYVPKI 49
15	mouse_E3αI	MADEEMDGAE RMDVSPPEPL APQRPASWWD QQVDFYTAFL HHLAQLVPEI 50
2	human_E3αI	MADEEAGGTE RMEISAEPLQ TPORLASWWD QQVDFYTAFL HHLAQLVPEI 50
Consensus		MA.E.....D...L...A..W.Q..D.....HLA..VP.I 50
6	mouse_E3αI	YCRGPNFPQ KEDTLAQHIL LGPMEWICA EDPALGFPKL EQANKPSHLC 99
4	human_E3αI	YCRGPNFPQ KEDMLAQHVL LGPMEWLCG EDPAFGFPKL EQANKPSHLC 99
15	mouse_E3αI	YFAEMDPDL KQESVQMSI LTPLEWLFGE DDPDI CLEKL KHSG-AFQLC 99
2	human_E3αI	YFAEMDPDL KQESVQMSI FTPLEWLFGE DDPDI CLEKL KHSG-AFQLC 99
Consensus		Y.....P...K.....Q...L.P.EWVL.G.EDP.....KL.....LC 100
6	mouse_E3αII	GRVFKVGEPT YSCRDCAVDP TCVLCMECFL GSI HRDHRYR MTTSGGGGFC 149
4	human_E3αII	GRVFKVGEPT YSCRDCAVDP TCVLCMECFL GSI HRDHRYR MTTSGGGGFC 149
15	mouse_E3αI	GKVFKSGETT YSCRDCAI DP TCVLCMDCFQ SSVHKNHRYK MHTSTGGGFC 149
2	human_E3αI	GRVFKSGETT YSCRDCAI DP TCVLCMDCFQ DSVHKNHRYK MHTSTGGGFC 149
Consensus		GRVFK.GE.T YSCRDCA.DP TCVLCM.CF..S.H..HRY.M.TS.GGGFC 150
6	mouse_E3αII	DCGDTEAWKE GPYCQKHKL SSEVVEEEDP LVHLSERVEDI A RTYNI FAI MF 199
4	human_E3αII	DCGDTEAWKE GPYCQKHEL N TSEI.EEEEDP LVHLSERVEDI A RTYNI FAI TF 199
15	mouse_E3αI	DCGDTEAWKT GPFCDVHEPG RAGTTKESLH -CPLNEEVI A QARRI FPSVI 198
2	human_E3αI	DCGDTEAWKT GPFCDVHEPG RAGTI KENS R -CPLNEEVI V QARKI FPSVI 198
Consensus		DCGDTEAWK.GP.C..HE.....E....L.E.VIA....IF.... 200

Figure 1B

6	mouse_E3αII	RYAVDILTWE	KESELPEDLE	VAEKSDTYYC	MLFNDEVHTY	EQVIYTLQKA	249
4	human_E3αII	RYAVEILTWE	KESELPADLE	MVEKSDTYYC	MLFNDEVHTY	EQVIYTLQKA	249
15	mouse_E3αI	KYIVEMTIWE	EEKELPELQ	I REKNERYYC	VLFNDEHHSY	DHVIYSLQRA	248
2	human_E3αI	KYVVEMTIWE	EEKELPELQ	I REKNERYYC	VLFNDEHHSY	DHVIYSLQRA	248
	Consensus	.Y.VE...WE	.E.ELP...L.	..EK...YYC	.LFNDE.H.Y	..VI.Y.LQ.A	250
6	mouse_E3αII	VNCTQKEAIG	FATTVD RDGR	RPVRYGDFQY	CDQAKTVI VR	NTSRQTK-PL	298
4	human_E3αII	VNCTQKEAIG	FATTVD RDGR	RSVRYGDFQY	CEQAKSVI VR	NTSRQTK-PL	298
15	mouse_E3αI	LDCELAEAQL	HTTAIDKEGR	RAVKAGVYAT	CQEAKEDI KS	HSENVSQHPL	298
2	human_E3αI	LDCELAEAQL	HTTAIDKEGR	RAVKAGAYAA	CQEAKEDI KS	HSENVSQHPL	298
	Consensus	..C...EA..	..T..D..GR	R.V..G....	C..AK..I..	.....PL	300
6	mouse_E3αII	KVQVMHSSVA	AHQNFGLKAL	SWLGSVI GYS	DGLRRI LCQV	GLQEGPDGEN	348
4	human_E3αII	KVQVMHSSI V	AHQNFGLKLL	SWLGSII GYS	DGLRRI LCQV	GLQEGPDGEN	348
15	mouse_E3αI	HVEVLHSVVM	AHQKFALRLG	SWWNKI M5YS	SDFRQI FCQA	CLVEEPPGSEN	348
2	human_E3αI	HVEVLHSEI M	AHQKFALRLG	SWWNKI M5YS	SDFRQI FCQA	CLREEPDSEN	348
	Consensus	.V.V.HS...	AHQ.F.L.L.	SW..I..YS	...R.I.CQ.	.L.E.PD.EN	350

Figure 1C

6	mouse_E3αII	SSLVDRLMLN	DSKLWKGARS	VYHQLFMSSL	LMDLKYKKLF	ALRFAKNYRQ	398
4	human_E3αII	SSLVDRLMLS	DSKLWKGARS	VYHQLFMSSL	LMDLKYKKLF	AVRFAKNYQQ	398
15	mouse_E3αI	PCLISRLMLW	DAKLYKGARK	ILHELIFSSF	FMEMEYKKLF	AMEFVKYYKQ	398
2	human_E3αI	PCLISRLMLW	DAKLYKGARK	ILHELIFSSF	FMEMEYKKLF	AMEFVKYYKQ	398
	Consensus	..L..RLM.	D.KL.KGAR.	..H.L..SS.	M..YKKLF	A..F.K.Y.Q	400
6	mouse_E3αII	LQRDFMEDDH	ERAVSVTALS	VQFFTAPTLA	RMLTEENLM	TVIIKAFMDH	448
4	human_E3αII	LQRDFMEDDH	ERAVSVTALS	VQFFTAPTLA	RMLTEENLM	SVIIKTFMDH	448
15	mouse_E3αI	LQKEYISDDH	ERSISITALS	VQMLTVPTLA	RHLIEEQNVI	SVITETLLEV	448
2	human_E3αI	LQKEYISDDH	DRSISITALS	VQMFTVPTLA	RHLIEEQNVI	SVITETLLEV	448
	Consensus	LQ.....	DDH-ER..S.TALS	VQ.FT.PTLA	R.LI.E.N..	SVI..T...	450

Figure 1D

SEQ ID NO:				
6	mouse_E3αII	L KHRDAQGRF	QFERYTALQA	FKFRRVQSLI
				LDLKYVLI SK PTEWDEL RQ
4	human_E3αII	L RHRDAQGRF	QFERYTALQA	FKFRRVQSLI
				LDLKYVLI SK PTEWDEL RQ
15	mouse_E3αI	L PEYLD RNN-	KFN-FQGY SQ	DKLGRVYAVI
				CDLKYI LI SK PVI WTERLRA
2	human_E3αI	L PEYLD RNN-	KFN-FQGY SQ	DKLGRVYAVI
				CDLKYI LI SK PTI WTERLRM
	Consensus	L.....	.F.....	.K...RV...I
				.DLKY. LI SK PT. W...LR.
				500
6	mouse_E3αII	KFLQG FDAFL	ELLKCMQGM D	PI TRQVGQHI
				EMEPEWEAAF TLQMKLTHVI
4	human_E3αII	KFLEG FDAFL	ELLKCMQGM D	PI TRQVGQHI
				EMEPEWEAAF TLQMKLTHVI
15	mouse_E3αI	QFLEGFRSFL	KI LTCMQGME	EI RRQVGQHI
				EVDPDWEAAI AI QMQLKNI L
2	human_E3αI	QFLEGFRSFL	KI LTCMQGME	EI RRQVGQHI
				EVDPDWEAAI AI QMQLKNI L
	Consensus	.FLEGF...FL..	L.CMQGM	.I.RQVGQHI
				E..P.WEAA..QM.L....
				550
6	mouse_E3αII	SM/QDWCALD	EKVLIEAYKK	CLAVLTQCHG
				GFTDGEQPI T LSI CGHSVET
4	human_E3αII	SM/QDWCASD	EKVLIEAYKK	CLAVLMQCHG
				GYTDGEQPI T LSI CGHSVET
15	mouse_E3αI	LMFQEWACAD	EDLLLVAYKE	CHKAVMRCST
				NFMSSTKT V- VQLCGHSLET
2	human_E3αI	LMFQEWACAD	EELLVAYKE	CHKAVMRCST
				SFISSSKT V- VQSCGHSLET
	Consensus	.M.Q.WCA.D	E..L..AYK.	C....M.C...F.....
				...CGHS.ET
				600

Figure 1E

6	mouse_E3αII	I RYCVSQEKV SI HLPISRL	AGLHVLLSKS EVAYKFPPELL	PLSELSPPML	648
4	human_E3αII	I YCVSQEKV SI HLPVSRL	AGLHVLLSKS EVAYKFPPELL	PLSELSPPML	648
15	mouse_E3αI	KSYKVSIEDLV SI HLPISRTL	AGLHVRLSRL GAI SRLHEFV	PDFSQVEVL	645
2	human_E3αI	KSYRVSEDLV SI HLPISRTL	AGLHVRLSRL GAVSRLHEFV	SFEDFQVEVL	645
	Consensus	..Y.VS...V SI HLP.SR.L	AGLHV.LS..	.....E.. P.....L	650
6	mouse_E3αII	IEHPLRCLVL CAQVHAGMMR	RNGFSLVNQI	YYYHNVKCRR EMFDKDI VML	698
4	human_E3αII	IEHPLRCLVL CAQVHAGMMR	RNGFSLVNQI	YYYHNVKCRR EMFDKDVML	698
15	mouse_E3αI	VEYPLRCLVL VAQVVAEMMR	RNGLSLISQV FYYQDVKCRE	EMFDKDI I ML	695
2	human_E3αI	VEYPLRCLVL VAQVVAEMMR	RNGLSLISQV FYYQDVKCRE	EMFDKDI I ML	695
	Consensus	.E.PLRCLVL .AQV.A.MMR	RNG.SL..Q..YY..VKCR.	EM.DKDI.ML	700
6	mouse_E3αII	QTGVSMMDPN HFLM MLSRF	ELYQLFSTPD YGKRFSSEVT	HKDVVQQNNT	748
4	human_E3αII	QTGVSMMDPN HFLM MLSRF	ELYQIFSTPD YGKRFSSEIT	HKDVVQQNNT	748
15	mouse_E3αI	QI GASIMDPN KFLLLVLQRY	EL-----TDA FNKTI ST--K	QDQLI KQYNT	738
2	human_E3αI	QI GASLMDPN KFLLLVLQRY	EL-----AEA FNKTI ST--K	QDQLI KQYNT	738
	Consensus	Q.G.S.MDPN .FL...L.R.	EL.....T...K.S....	..D...Q.NT	750

Figure 1F

6	mouse_E3αII	LI E E M L Y L I I	ML V G E R F N P G	V G Q V A A T D E I	K R E I I H Q L S I	K P M A H S E L V K	798
4	human_E3αII	LI E E M L Y L I I	ML V G E R F S P G	V G Q V N A T D E I	K R E I I H Q L S I	K P M A H S E L V K	798
15	mouse_E3αI	LI E E M L Q V L I	Y I V G E R Y V P G	V G N V T R E E V I	M R E I T H L L C I	E P M P H S A I A R	788
2	human_E3αI	LI E E M L Q V L I	Y I V G E R Y V P G	V G N V T K E E V T	M R E I I H L L C I	E P M P H S A I A K	788
	Consensus	LI E E M . . . I	. . V G E R . . P G	V G . V . . . . . I	. R E I I H . L . I	. P M H S . . . K	800
6	mouse_E3αII	SL P E D E N K E T	G M E S V I E S V A	H F K K P G L T G R	G M Y E L K P E C A	K E F N L Y F Y H F	848
4	human_E3αII	SL P E D E N K E T	G M E S V I E A V A	H F K K P G L T G R	G M Y E L K P E C A	K E F N L Y F Y H F	848
15	mouse_E3αI	N L P E N E N N E T	G L E N V I N K V A	T F K K P G V S G H	G V Y E L K D E S L	K D F N M Y F Y H Y	838
2	human_E3αI	N L P E N E N N E T	G L E N V I N K V A	T F K K P G V S G H	G V Y E L K D E S L	K D F N M Y F Y H Y	838
	Consensus	. L P E . E N . E T	G . E . V I . . V A	. F K K P G . . G .	G . Y E L K . E . .	K . F N . Y F Y H .	850
6	mouse_E3αII	S R A E Q S K A E E	A Q R K L K R E N K	E D T A L P P P A L	P P F C P L F A S L	V N I L Q C D V M	898
4	human_E3αII	S R A E Q S K A E E	A Q R K L K R Q N R	E D T A L P P P V L	P P F C P L F A S L	V N I L Q S D V M	898
15	mouse_E3αI	S K T Q H S K A E H	M Q K R R K Q E N	K D E A L P P P P P	P E F C P A F S K V	V N L L S C D V M	888
2	human_E3αI	S K T Q H S K A E H	M Q K R R K Q E N	K D E A L P P P P P	P E F C P A F S K V	I N L L N C D I M M	888
	Consensus	S . . . . S K A E .	. Q . K . . . Q . .	. D . A L P P P . .	P . F C P . F . . .	V N . L . C D V M	900



Figure 1G

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SEQ ID NO:
6 mouse_E3αII YI MGTI LQWA VEHGSAWSE SMLQRVLHLI GMLQEEKHH LENAEGHVQ 948
4 human_E3αII CI MGTI LQWA VEHNGYAWSE SMLQRVLHLI GMLQEEKQH LENVTEEHV 948
15 mouse_E3αI YI LRTI FERA VDTESNLWTE GMLQMAFHI L ALGLEEKQQ LQKAPEEEV- 937
2 human_E3αI YI LRTVFERA I DTDSNLWTE GMLQMAFHI L ALGLEEKQQ LQKAPEEEV- 937
Consensus YI..TI...A V.....WE .MLQ...H...L.EEKQ. L..A.EE.V. 950

6 mouse_E3αII TFTFTQKI SK PGDAPHNSPS I LAMLETQN APSLEAHKDM I RWLLKMFNA 998
4 human_E3αII TFTFTQKI SK PGEAPKNSPS I LAMLETQN APYLEVHKDM I RWLKTfNA 998
15 mouse_E3αI AFDfYHKASR LGSSAMNAQN I QMLLERLKG I PQLEGQKDM I TWLQMFDT 987
2 human_E3αI TFDFYHKASR LGSSAMNI QM L---LEKLKG I PQLEGQKDM I TWLQMFDT 984
Consensus TF.F..K.S. .G....N...I...LE.L..P.LE..KDM I.WL.MF.. 1000

6 mouse_E3αII I KKI RE--CS SSSPVAEAE G TI MEESRDK DKAERKRKAE I ARLRREKI M 1046
4 human_E3αI VKKMR--SS PTSPVAETEG TI MEESRDK DKAERKRKAE I ARLRREKI M 1046
15 mouse_E3αI VKRLREKSCL VVATTSGLEC I KSEETHDK EKAERKRKAE AARLHRQKI M 1037
2 human_E3αI VKRLREKSCL I VATTSGSES I KNDEITHDK EKAERKRKAE AARLHRQKI M 1034
Consensus VK..RE..C. ....E. ...EE...DK .KAERKRKAE .ARL.R.KI M 1050
```

Figure 1H

6	mouse_E3αII	AQMSEMQRH	I	DENKELFQQ	TLELDTSASA	TL--DSSPPV	SDAALTALGP	1094
4	human_E3αII	AQMSEMQRH	I	DENKELFQQ	TLELDASTSA	VL--DHSPVA	SDMTLTALGP	1094
15	mouse_E3αI	AQM6ALQKNF	I	ETHKLMYDN	TSEVTGKEDS	IMEEESTSAV	SEASRIALGP	1087
2	human_E3αI	AQM6ALQKNF	I	ETHKLMYDN	TSEMPGKEDS	IMEEESTPAV	SDYSRIALGP	1084
	Consensus	AQM6..Q..F	I	...K.....	T.E.....	...S.P.V	SD...ALGP	1100
6	mouse_E3αII	AQTQVPEPRQ	F	VTCLCQEE	QEVTVGSRAM	VLAAFVQRST	VLSKDRTKI	1144
4	human_E3αII	TQTQVPEQRQ	F	VTCLCQEE	QEVKVESRAM	VLAAFVQRST	VLSKNRSKFI	1144
15	mouse_E3αI	KRGPAVTEKE	V	LTCILCQEE	QEVKLENNAM	VLSACVQKST	ALTQHRGKPV	1137
2	human_E3αI	KRGPSVTEKE	V	LTCILCQEE	QEVKIENNAM	VLSACVQKST	ALTQHRGKPI	1134
	Consensus	.....	..	TCILCQEE	QEVK.E..AM	VL.A.VQ	ST.L...R.K.I	1150
6	mouse_E3αII	AD-PEKYDPL	F	MHPDLSCGT	HTGSCGHVMH	AHCWQRYFDS	VQAKEQRRQQ	1193
4	human_E3αII	QD-PEKYDPL	F	MHPDLSCGT	HTSSCGHI	MH AHCWQRYFDS	VQAKEQRRQQ	1193
15	mouse_E3αI	DHLGETLDPL	F	MDPDLAHGT	YTGSCGHVMH	AVCWQKYFEA	VQ--LSSQQ	1184
2	human_E3αI	ELSGEALDPL	F	MDPDLAYGT	YTGSCGHVMH	AVCWQKYFEA	VQ--LSSQQ	1181
	Consensus	....E..DPL	F	M PDL..GT	.TGSGGHVMH	A.CWQ.YF..	VQ.....QQ	1200



Figure 11

6	mouse_E3αII	RLRLHTSYDV	ENGFLCPLC	ECLCNTVIPL	L-LPPRSILS	RRLN-FSDQP	1241
4	human_E3αII	RLRLHTSYDV	ENGFLCPLC	ECLCNTVIPL	L-LPPRNIFN	NRLN-FSDQP	1241
15	mouse_E3αI	RIHVDL-FDL	ESGEYLCPLC	KSLCNTVIPI	IPLOPQINS	ENAEALACL	1233
2	human_E3αI	RIHVDL-FDL	ESGEYLCPLC	KSLCNTVIPI	IPLOPQINS	ENADALACL	1230
	Consensus	R.....D.	E.GE.LCPLC	..L.NTVIP.	..L.P..I.S	.....	1250
6	mouse_E3αII	DLAQWTRAVT	QQIKVVQMLR	RKHNA-DTS	SSETEAMNI	IPPEGFRPD	1290
4	human_E3αII	NLTQMRTIS	QQIKALQFLR	KEESTP-NNA	STKNSENVDE	LQPEGFRPD	1290
15	mouse_E3αI	TLARWQTVL	ARISGYNIKH	AKGEAPAVPV	LFNQGMGDST	FEFHSLSFG	1283
2	human_E3αI	TLARWQTVL	ARISGYNI RH	AKGENP-IPI	FFNQGMGDST	LEFHSLSFG	1279
	Consensus	.LA.W.TV.	..I.....	.K...P-..	.....	.....	1300
6	mouse_E3αII	FYPRNPYSDS	IKEMLTTFGT	AAYKVGLKVH	PNEGDRVPPI	LCWGTCAITI	1340
4	human_E3αII	FRPKI PYSES	IKEMLTTFGT	ATYKVGLKVH	PNEEDPRVPI	MCWGSCAYTI	1340
15	mouse_E3αI	VQSSVKYSNS	IKEMWILFAT	TIYRI GLKVP	PDELDPRVPM	MTWSTCAFTI	1333
2	human_E3αI	VESSI KYSNS	IKEMWILFAT	TIYRI GLKVP	PDERDPRVPM	LTWSTCAFTI	1329
	Consensus	.....YS.S	IKEM...F.T	..Y..GLKV.	P.E.DPRVP.	..W.TCA.TI	1350



Figure 1K

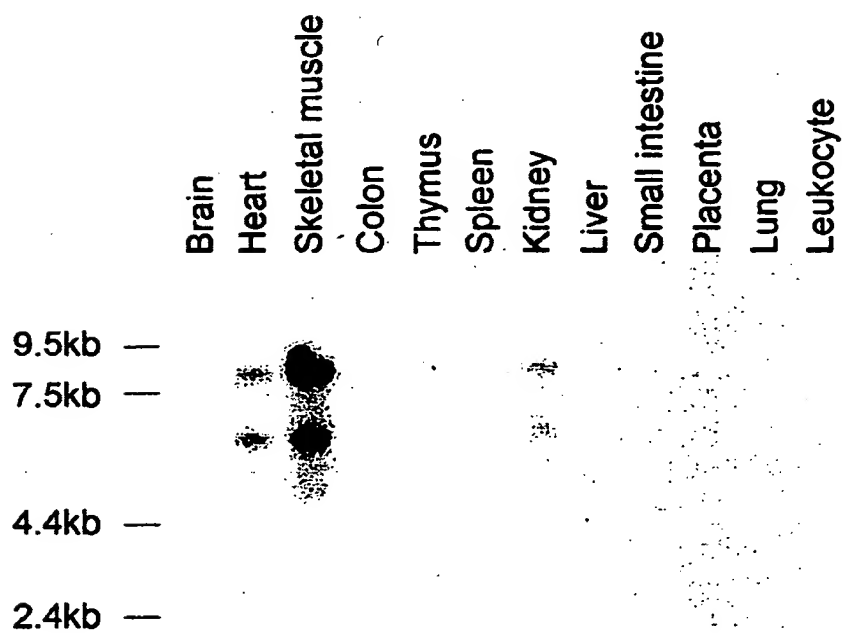
6 mouse_E3αII	LHKT LHQYTG	SALKEAPSGW	HLWRSVRAAI	MPFLKCSAL	FHYLNGVPAP	1532
4 human_E3αII	LYKTLHQYTG	SALKEIPSGW	HLWRSVRAGI	MPFLKCSALF	FHYLNGVPSP	1532
15 mouse_E3αI	FFVEVSQHTD	GLTGCGAPGW	YLWLSLRNGI	TPYLRC AALL	FHYLLGVAPP	1533
2 human_E3αI	FFAEISQYTS	GSIGCDIPGW	YLWVSLKNGI	TPYLRC AALF	FHYLLGVTPP	1525
Consensus	.....QYT.	.....GW	.LW.S.R.GI	.P.L.C.AL	FHYL.GV..P	1550
6 mouse_E3αII	PDLQV-SGTS	HFEHLCNYLS	LPTNLHLFQ	ENSDIMNSLI	ESWCQNSEVK	1581
4 human_E3αII	PDIQV-PGTS	HFEHLCSYLS	LPNNLICLFQ	ENSEIMNSLI	ESWCRNSEVK	1581
15 mouse_E3αI	EELFANSAEG	EFSALCSYLS	LPTNLFLLFQ	EYWDTIRPLL	QRWCGDPALL	1583
2 human_E3αI	EELHTNSAEG	EYSALCSYLS	LPTNLFLLFQ	EYWDTVRPLL	QRWCADPALL	1575
Consensus	..L....S...	.F..LCSYLS	LPTNL..LFQ	E..D....L.	..WC.....	1600
6 mouse_E3αII	RYLNGERGAI	SYPRGANKLI	DLPEDYSSLI	NQASNFSCPK	SGGDKSRAPT	1631
4 human_E3αII	RYLEGERDAI	RYPRESNKLI	NLPEDYSSLI	NQASNFSCPK	SGGDKSRAPT	1631
15 mouse_E3αI	KSLKQKSAVV	RYPRKRNSLI	ELPEDYSCLL	NQASHFRCPR	SADDERKHPV	1633
2 human_E3αI	NCLKQKNTVV	RYPRKRNSLI	ELPDDYSCLL	NQASHFRCPR	SADDERKHPV	1625
Consensus	..L.....	RYPR..N.LI	.LPEDYS.L.	NQAS.F.CP.	S...D....P.	1650

Figure 1L

6	mouse_E3αII	LCLVCGSLLC	SQSYCCQAEI	EGEDVGACTA	HTYSCGSGAG	I FLRVRECQV	1681
4	human_E3αII	LCLVCGSLLC	SQSYCCQTEL	EGEDVGACTA	HTYSCGSGVG	I FLRVRECQV	1681
15	mouse_E3αI	LCLFCGAILC	SQNI CCQEIV	NGEEVGACVF	HALHCGAGVC	I FLKI RECRV	1683
2	human_E3αI	LCLFCGAILC	SQNI CCQEIV	NGEEVGACIF	HALHCGAGVC	I FLKI RECRV	1675
	Consensus	LCL.CG..LC	SQ..CCQ...	.GE.VGAC..	H...CG.GV.	I FL..REC.V	1700
6	mouse_E3αII	LFLAGKTKGC	FYSPPYLDY	GETDQGLRRG	NPLHLCQERF	RKI QKLWQQH	1731
4	human_E3αII	LFLAGKTKGC	FYSPPYLDY	GETDQGLRRG	NPLHLCCKERF	KKI QKLWHQH	1731
15	mouse_E3αI	VLVEGKARGC	AYPAPYLDEY	GETDPGLKRG	NPLHLSRERY	RKLHLVWQQH	1733
2	human_E3αI	VLVEGKARGC	AYPAPYLDEY	GETDPGLKRG	NPLHLSRERY	RKLHLVWQQH	1725
	Consensus	....GK...GC	.Y..PYLD.Y	GETD.GL.RG	NPLHL...ER.	RK....WQQH	1750
6	mouse_E3αII	SITEEI GHAQ	EANQTLVGI D	WQHL			1755
4	human_E3αII	SVTEEI GHAQ	EANQTLVGI D	WQHL			1755
15	mouse_E3αI	CIIEEI ARSQ	ETNQMLFGFN	WQLL			1757
2	human_E3αI	CIIEEI ARSQ	ETNQMLFGFN	WQLL			1749
	Consensus	.I.EEI...Q	E.NQ.L.G..	WQ.L			1774

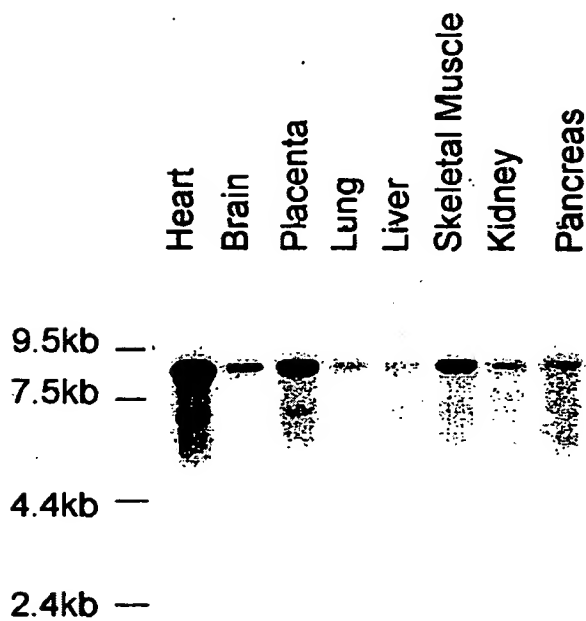
## FIG. 2

### Tth Expression Profile of huE3 $\alpha$ -II in Human Tissues

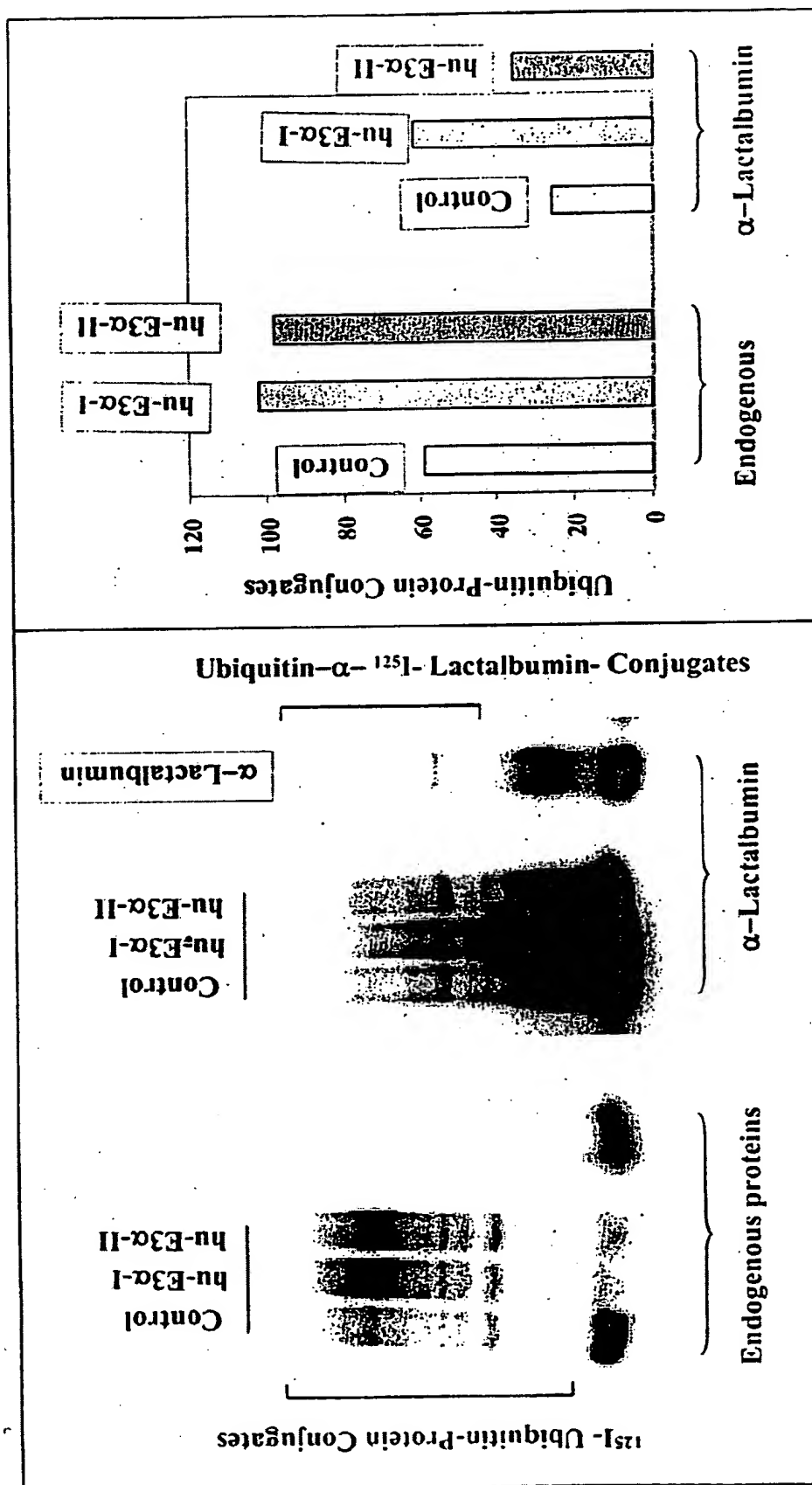


## FIG. 3

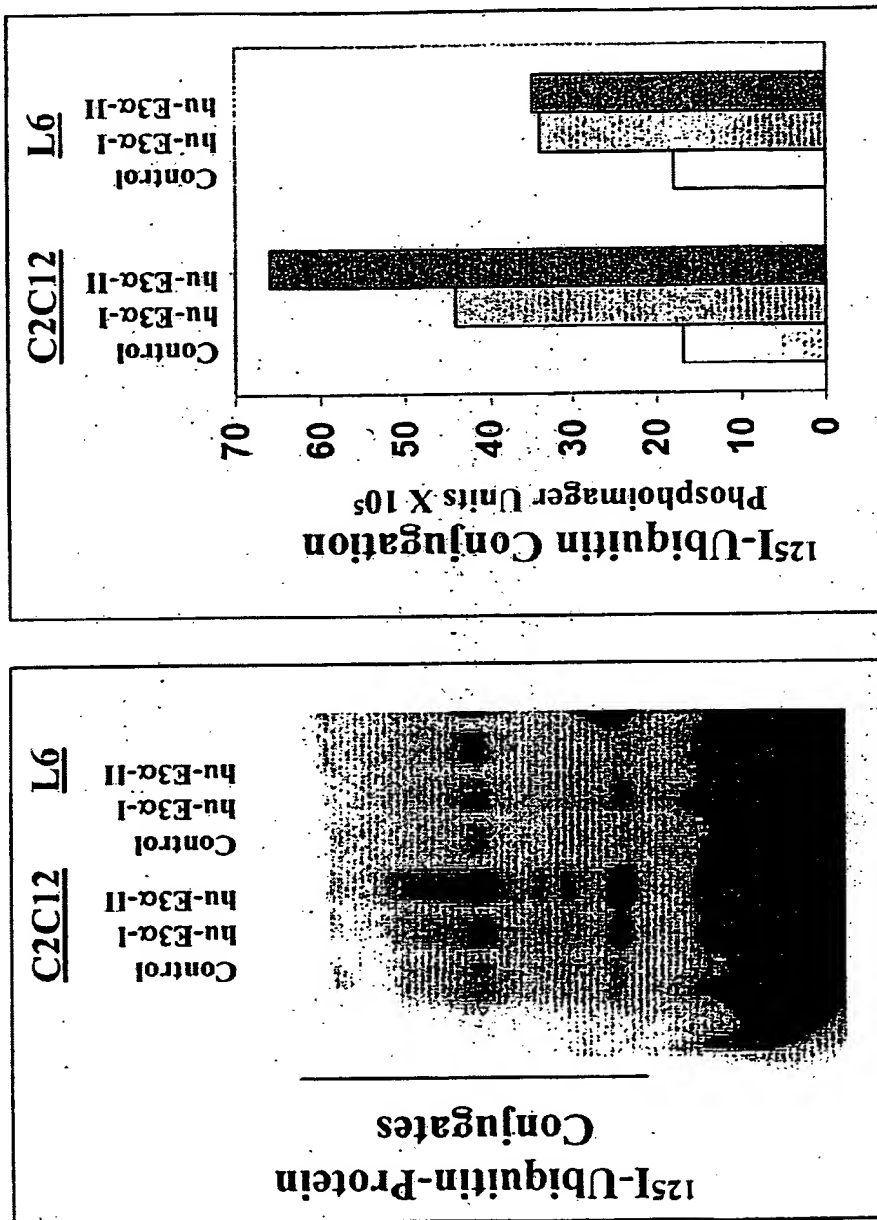
### Tth Expression Profile of huE3 $\alpha$ -I in Human Tissues



**Figure 4**  
**Ubiquitination of Endogenous Proteins**



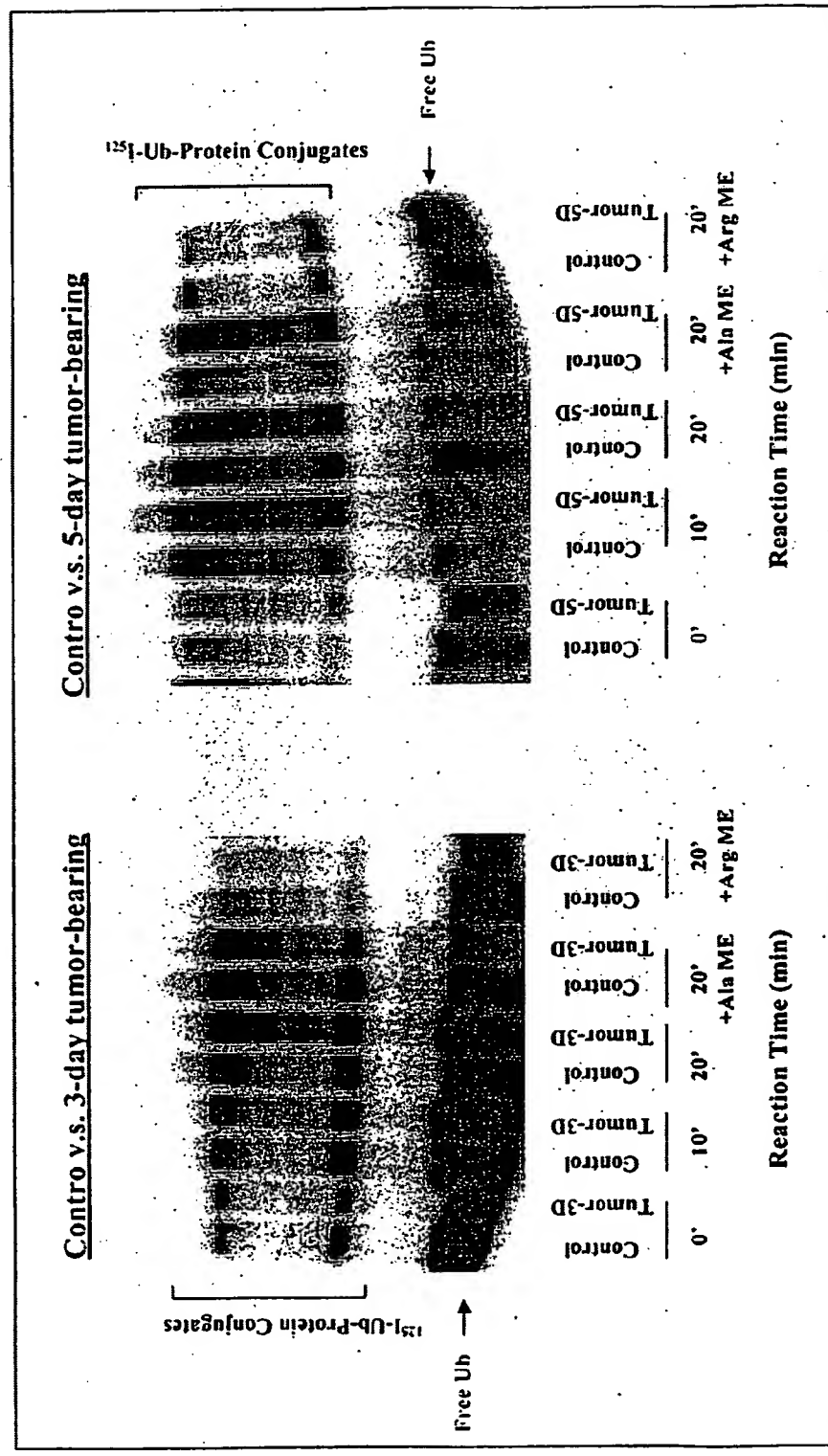
**Figure 5**  
**Transfection of Human E3a-I or E3a-II cDNA Stimulates**  
**Ubiquitin Conjugation in Cultured Muscle Cell Lines**





**Figure 6**

**$^{125}$ I-Ubiquitin Conjugation to Muscle Proteins and Its Sensitivity to E3 $\alpha$  Inhibitor  
In Skeletal Muscle Extracts**



**Figure 7**

**Rates of Ubiquitination of N-end Rule Substrate  
 $\alpha$ -Lactalbumin in Skeletal Muscle Extracts**

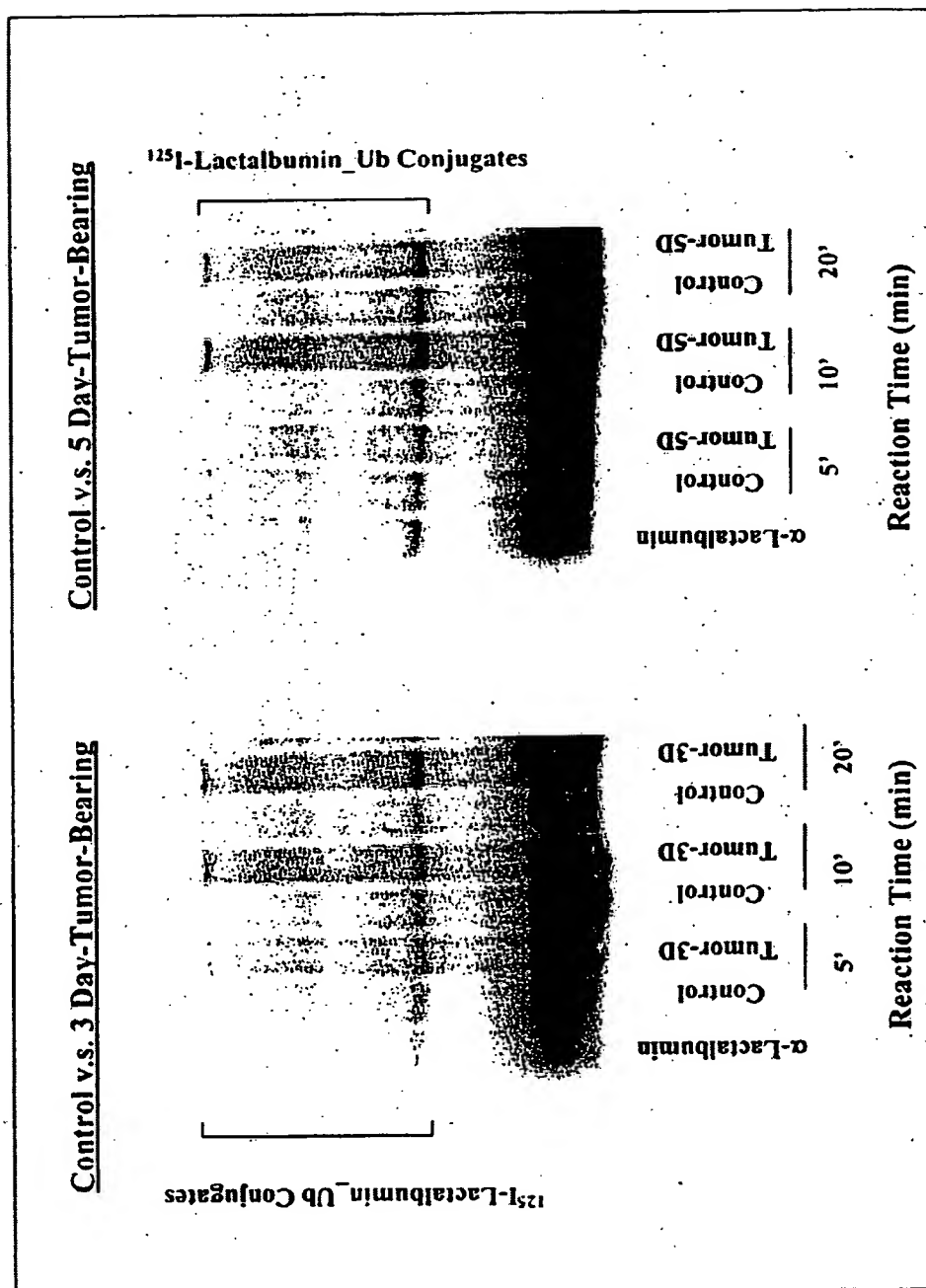


Figure 8

Northern blot analysis of E3 $\alpha$ -I & E3 $\alpha$ -II expression  
in gastrocnemius muscles in YAH-130 experimental cachexia model

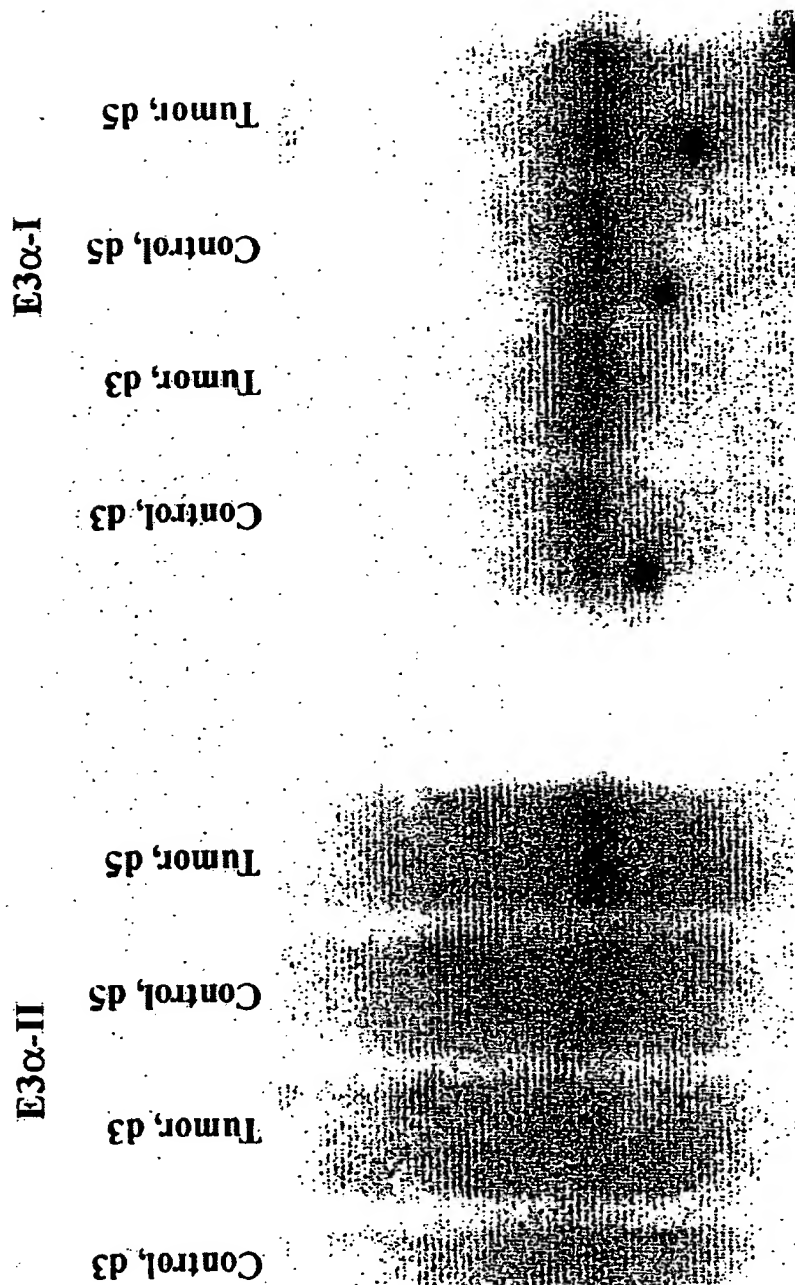
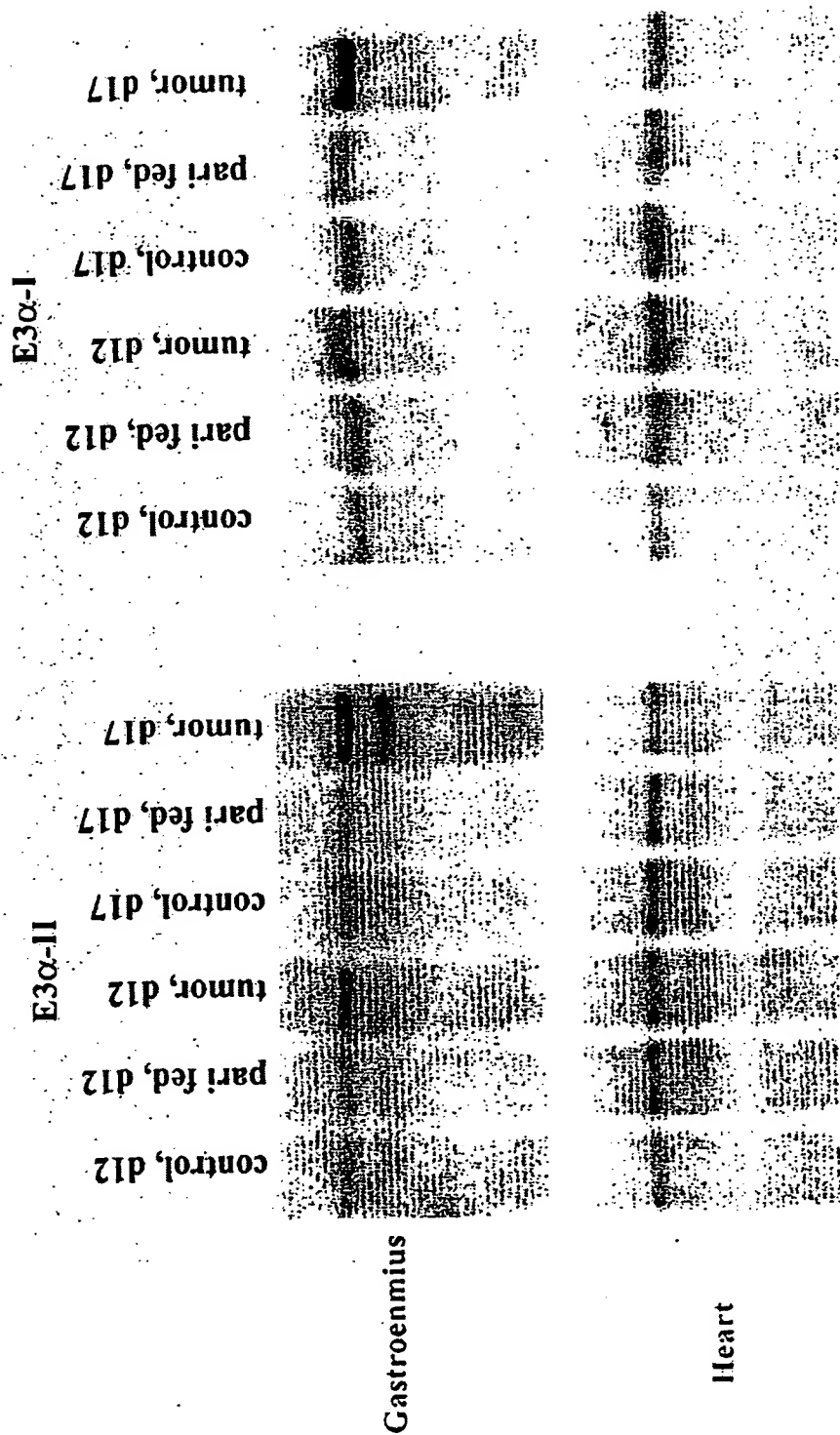


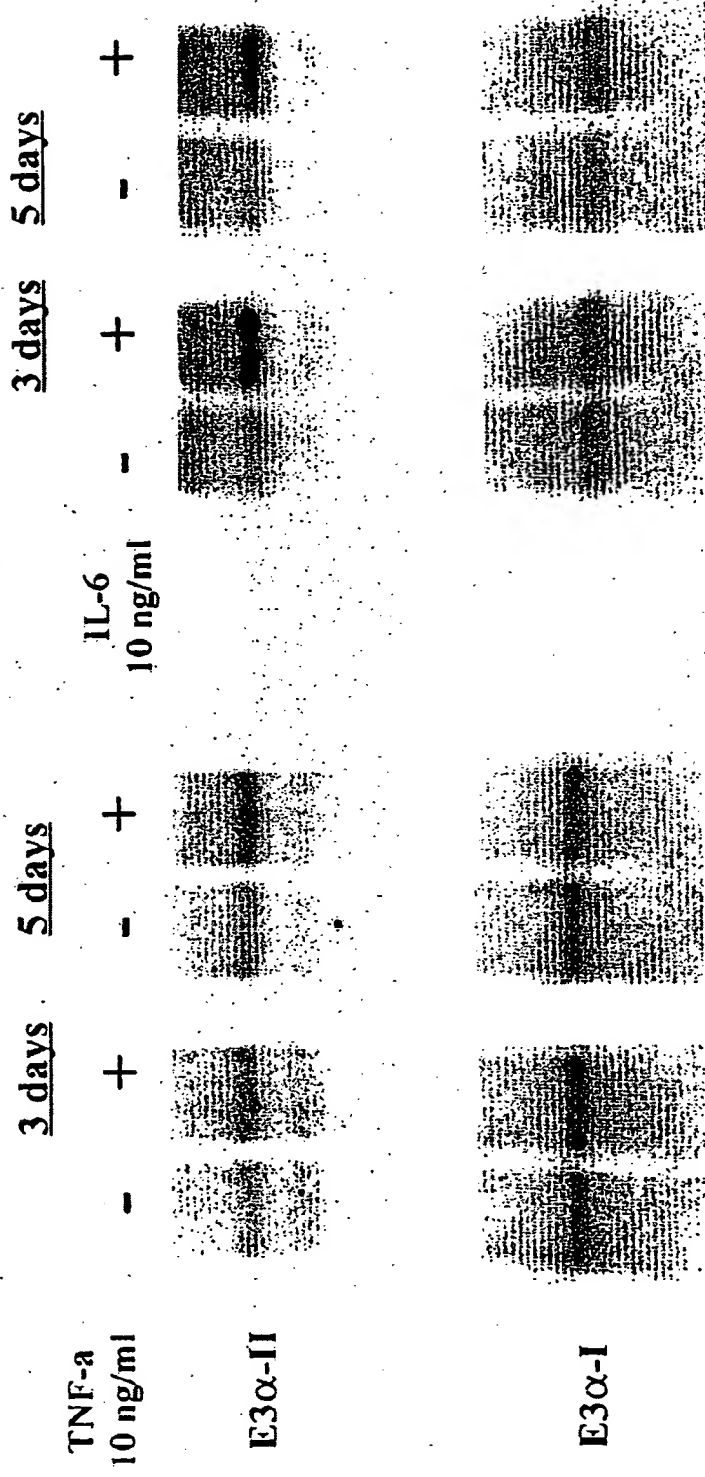
Figure 9

Northern blot analysis of E3 $\alpha$ -I and E3 $\alpha$ -II expression in  
gastrocnemius muscle and cardiac muscle  
in C26 experimental cachexia model

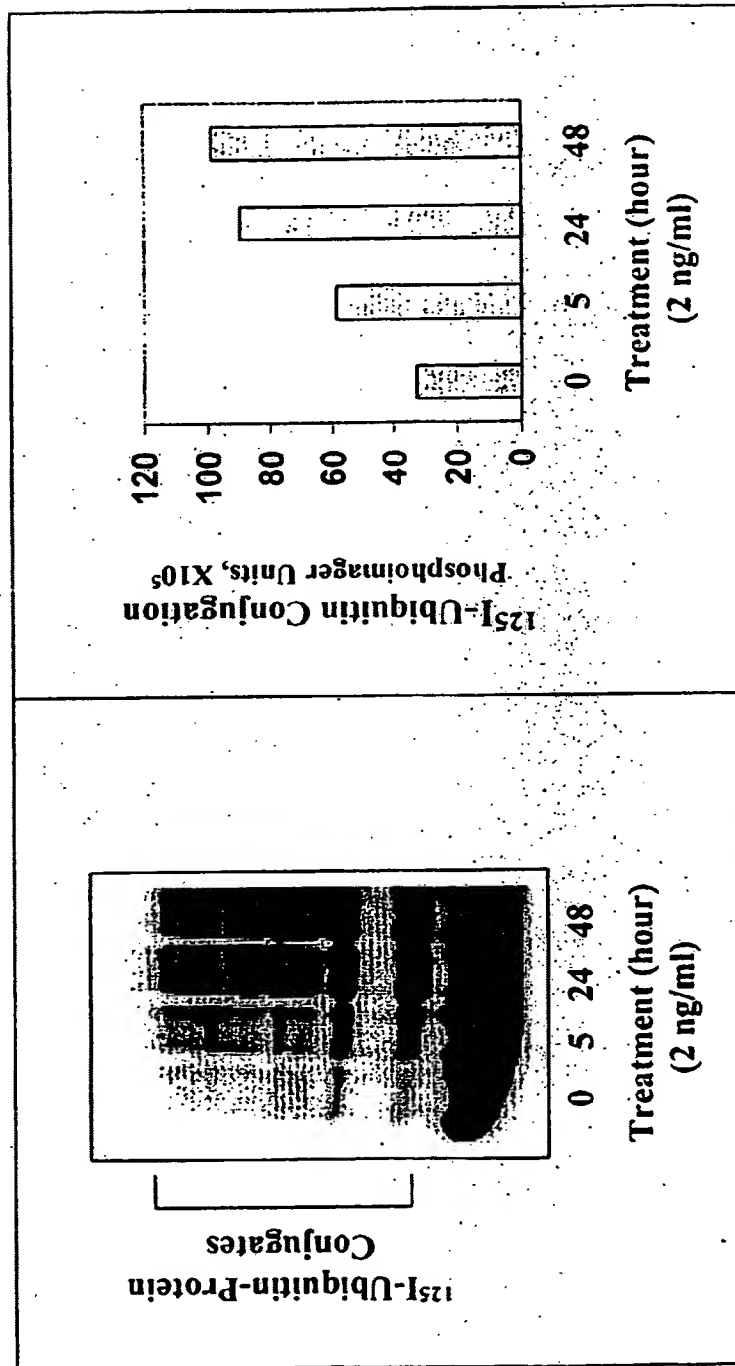


**Figure 10**

**Proinflammatory cytokines TNF- $\alpha$  and IL-6 induce E3 $\alpha$ -II Expression in C2C12 myotube culture**



**Figure 11**  
**IL-6 Elicits Accelerated Ubiquitination in C2C12 Myotube Cultures**



**Figure 12**  
**TNF $\alpha$  Elicits Accelerated Ubiquitination in C2C12 Myotube Cultures**

